

Title (en)

Laminating adhesive composition having barrier properties for gases and vapors

Title (de)

Kaschierklebmassen mit Barriereigenschaften gegenüber Gasen und Dämpfen

Title (fr)

Compositions pour couches adhésives ayant des propriétés de barrière pour gaz et vapeurs

Publication

EP 1217052 B1 20051026 (DE)

Application

EP 01130724 A 20011221

Priority

- DE 10064573 A 20001222
- DE 10138423 A 20010806

Abstract (en)

[origin: EP1217052A2] In an adhesive coating (A) prepared from, or using, silanes (B) by at least partial hydrolysis or condensation, the new feature is the presence of inorganic, platelet-shaped modified filler(s) which are either: (i) inorganically condensable and/or organically polymerizable and/or ionically bindable into the condensate from (B) or (ii) already so incorporated. In an adhesive coating (A) prepared from, or using, silanes (B) by at least partial hydrolysis or condensation, the new feature is the presence of inorganic, platelet-shaped modified filler(s) which are either: (i) inorganically condensable and/or organically polymerizable and/or ionically bindable into the condensate from (B) or (ii) already so incorporated. (B) are of formulae (I)-(III). $XaRbSiR1>4-a-b$ (I) $[P]_{+>[XaRbSiR2>4-a-b]->}$ (II) $[XaRbSiR3>4-a-b]_{+>[Q]->}$ (III) X : hydrolyzable group; R : optionally substituted alkyl, alkenyl, aryl, alkaryl or aralkyl; $R1>C$ -bound organic residue containing a group that takes part in an organic polymerization reaction; $R2>$ negatively charged organic group; $R3>$ positively charged organic group; $P_{+>}$ (in)organic cation; $Q_{->}$ (in)organic anion; a : 1-3; b : 0-2; at least for (II) and (III), $a + b : 3$ Independent claims are also included for the following: (1) Method for preparing (A). (2) Preparation of a coated composite system using (A); (3) Composites produced by method (2).

IPC 1-7

C09J 4/00; **C09J 183/00**

IPC 8 full level

C09D 4/00 (2006.01); **C09D 183/04** (2006.01); **C09J 4/00** (2006.01); **C09J 183/04** (2006.01)

CPC (source: EP)

C08G 77/00 (2013.01); **C09D 4/00** (2013.01); **C09D 183/04** (2013.01); **C09J 4/00** (2013.01); **C09J 183/04** (2013.01); **C08L 2666/54** (2013.01)

Cited by

US9439417B2; FR2932648A1; US2011165246A1; CN102083309A; WO2013178563A2; WO2010007284A3; US10961415B2; JP2011525524A

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

EP 1217052 A2 20020626; **EP 1217052 A3 20030521**; **EP 1217052 B1 20051026**; AT E307855 T1 20051115; DE 50107818 D1 20051201; ES 2250293 T3 20060416

DOCDB simple family (application)

EP 01130724 A 20011221; AT 01130724 T 20011221; DE 50107818 T 20011221; ES 01130724 T 20011221